

APPENDIX XIII

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MULTICAST_FORWARD(P,L)                                (* forward a multicast packet P received on port L *)
  If ProtocolCheck(P) = Routed then                    (* routed packet *)
    If ClientLink(L) = False then                      (* packet received from a non-client link *)
      V:= VlanfromLink(L);                             (* map from link to Vlan *)
      VlanLinkSet:= FindVlanLinks(V,L)                 (* if L is not in V return empty list *)
      Forward (P, VlanLinkSet)                         (* forward P to Vlan links *)
      P' = AddVlanId(P,V)
      ClientLinkset:= FindClientLinks(V,L)
      Forward (P', ClientLinkset)                      (* forward P with VlanId to client links *)
    Else                                                (* packet received from client link *)
      V:= VlanfromPacket(P);
      ClientLinkset:= FindClientLinks(V,L)             (* map from VlanID in packet *)
      Forward (P, ClientLinkset)                       (* forward P to client links *)
      P' = RemoveVlanId(P)
      VlanLinkSet:= FindVlanLinks(V,L)
      Forward (P', VlanLinkSet)                       (* forward P with VlanId removed to client links *)
    Else                                                (* bridged packet*)
      Forward (P, AllBridgedLinks)

UNKNOWN_FORWARD(P,L)                                  (* forward a packet P with unknown Dest Address received on
link L *)
  If ProtocolCheck(P) = Routed then                    (* routed packet *)
    If ClientLink(L) = False then
      VlanLinkSet:= FindVlanLinks(L, ProtocolName)
      Forward (P, VlanLinkSet)
      (* we don't forward to client links since these addresses should be known *)
    Else                                                (* if from client link, send on all bridged links *)
      Forward (P, AllBridgedLinks)
    Else                                                (* bridged packet *)
```

Forward (P, AllBridgedLinks)